

CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

HQ-10 SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

OTHER ADDRESSEES - FOR INFORMATION

CC: R. Brown
D. Cornell
J. Sundstrom
P. Tandler
File

1104

TO: Bob Conreux

DATE: December 31, 1981

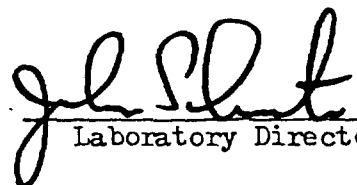
FROM: John Schuster

SUBJECT: Sludge Determinations

Sludge determinations were made on samples of well water, city water, iron tank effluent and on samples of iron tank effluent mixed with well water and with city water in a 95:5 ratio (95 parts water and 5 parts iron tank effluent).

These samples were collected on 28 December 1981.

<u>Sample</u>	<u>pH</u>	<u>Sludge, gpl</u>	<u>Sludge p/1000 gal</u>
Well Water	7.8	0.8780	7.33
City Water	7.9	0.0400	0.33
Iron Tank	2.4	1.9150	15.98
Well & Iron Tank	6.9	0.7710	6.43
City & Iron Tank	6.4	0.1610	1.34


Laboratory Director

JS/rs

C03602

CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

OTHER ADDRESSEES - FOR INFORMATION

CC: R. Brown
D. Cornell
J. Sundstrom
P. Tandler
File

A2
12/23/81

1104

HQ-10

SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

TO: Bob Conreaux

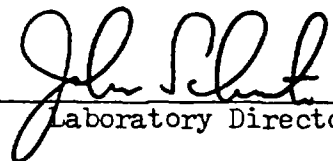
DATE: December 23, 1981

FROM: John Schuster

SUBJECT: Sludge Determinations

Sludge determinations were made of samples of well water, city water, iron tank effluent, and samples of iron tank effluent mixed with well water and with city water in a 95:5 ration (95 parts water and 5 parts iron tank effluent). These samples were collected on 21 December 1981.

<u>Sample</u>	<u>pH</u>	<u>Sludge, gpl</u>	<u>Sludge, p/1000 gal</u>
Well Water	7.9	0.5980	4.99
City Water	7.8	0.0490	0.41
Iron Tank	3.6	6.2390	52.06
Well & Iron Tank	6.3	1.2300	10.26
City & Iron Tank	6.2	0.2360	1.97


Laboratory Director

JS/rs

C03603

CERRO COPPER PRODUCTS CO.

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INTERNAL MEMORANDUM

OTHER ADDRESSEES - FOR INFORMATION

CC: R. Brown
D. Cornell
J. Sundstrom
~~P. Tandler~~
File

HQ-10

SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

TO: Bob Conreaux

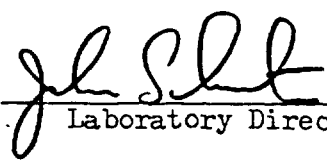
DATE: December 22, 1981

FROM: John Schuster

SUBJECT: Sludge Determinations

Sludge determinations were made on samples of well water, city water, iron tank effluent, and samples of iron tank effluent mixed with well water and with city water in a 95:5 ratio (95 parts water and 5 parts iron tank effluent). These samples were collected on 14 December 1981.

<u>Sample</u>	<u>pH</u>	<u>Sludge, gpl</u>	<u>Sludge, p/1000 gal</u>
Well Water	7.8	0.6160	5.14
City Water	7.6	0.0400	0.33
Iron Tank	2.5	53.41	445.71
Well & Iron Tank	5.9	1.9690	16.43
City & Iron Tank	3.6	1.1040	9.21


Laboratory Director

JS/rs

C03604

CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

HQ-10 SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

OTHER ADDRESSEES - FOR INFORMATION 12/10/81 #2

CC: R. Brown
D. Cornell
J. Sundstrom
P. Tandler
File

1104

TO: Bob Conreaux

DATE: December 10, 1981

FROM: John Schuster

SUBJECT: Sludge Determinations

Sludge determinations were made on samples of well water, city water, iron tank effluent, and samples of iron tank effluent mixed with well water and with city water in a 95:5 ratio (95 parts water and 5 part iron tank effluent).

<u>Sample</u>	<u>pH</u>	<u>Sludge, gpl</u>	<u>Sludge, p/1000 gal</u>
Well Water	6.3	1.5030	12.54
City Water	7.6	0.0710	0.59
Iron Tank	3.5	7.9400	66.26
Well & Iron Tank	6.4	1.0530	8.79
City & Iron Tank	5.7	0.2410	2.01


Laboratory Director

JS/rs

C03605

CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

HQ-10 SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

OTHER ADDRESSEES - FOR INFORMATION 12/1/81

CC: P. Tandler
File

1104

TO: Dave Cornell

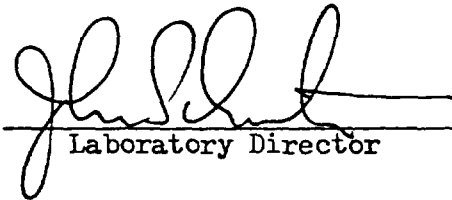
DATE: December 1, 1981

FROM: John Schuster

SUBJECT: Well Water Analysis

The sample of well water submitted was analyzed with the following results:

pH	6.0
Suspended Solids	150 ppm
Total Dissolved Solids	1100 ppm
Residue @ 103°C	1800 ppm
Fe	87 ppm
Cu	Nil
Ni	70 ppm
Zn	5 ppm
Pb	Nil
Ca	444 ppm
Mg	115 ppm
Chlorides	45 ppm
Sulfates	>2000 ppm


Laboratory Director

JS/rs

C03606

1104

cc P.T. A.2
File W.T.P. 7/13/81
Flow
7/13/81

CARL MARCIANTE info. on Daily Meter Readings

	CW	CE	TOTAL
7/8	297,000	305,900	602,900
7/9	131,000	433,000	564,000
7/10	100,000	426,200	526,200
<u>RAIN</u> 7/10 + 7/11	1,253,000	448,200	1,701,200
<u>Power</u> <u>Outage</u> 7/12 Sat.	53,000	220,200 *	273,200
7/13 Sun.	68,000	80,700	148,700

* Cerro East on Separate Power Source & Pumps:
when we are down.

+ will not use the numbers for the ^{rain} day.
will use day before.

7/13/81

RWB - T.C.

WE still have flows that we must
cut off.

7/13 is about normal for CW. in
shutdown and 7/10 is about normal
for Cerro East when shutdown and
the Aurore Casting flowing east.

John J.

CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

OTHER ADDRESSEES - FOR INFORMATION

CC: R. E. Conreux
R. Groves
J. Johnson
P. Tandler
File

1104 ✓

HQ-10

SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

TO: Roy Brown

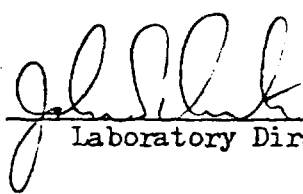
DATE: May 26, 1981

FROM: John Schuster

SUBJECT: Pond Residue Analysis

The three samples of filtered pond residue were analyzed and the results are given below:

<u>Sample</u>	<u>Bosh Discharge</u>	<u>Pond Center</u>	<u>AP Discharge</u>
Moisture	36.7%	57.0%	50.1%
Copper	17.3%	7.4%	10.6%
Iron	8.4%	35.1%	28.9%
Lead	2.4%	1.8%	5.3%
Silver	.003%	.003%	.007%
Zinc	2.8%	2.9%	1.77%
Tin	7.0%	4.6%	7.1%
Sample Date	16 April 1981	18 May 1981	18 May 1981


Laboratory Director

JS/rs

C03608

CERRO COPPER PRODUCTS CO.

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INTERNAL MEMORANDUM

OTHER ADDRESSEES - FOR INFORMATION

cc: P. Tandler ✓
R. Brown

1203
1104

HQ-10 SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

TO: John Schuster

DATE: April 6, 1981

FROM: J. Johnson

SUBJECT: Waste Treatment Sampling

Your assistance is needed in providing a short-term sampling program on our effluent from Cerro East.

It is requested that this commence on an urgent basis since the Waste Treatment Plant is now on strike. Roy Brown will furnish the daily samples for this purpose so that they can be analyzed for the parameters outlined by the Waste Treatment Plant.

Our objective in doing this is two-fold. The purpose is to determine the content of the sample. In addition, we are interested in making a comparison of this sample with previous analysis for similar flow quantity.

Our sampling techniques have been changed at Cerro East and we anticipate a change in the composite sample observed. It is expected that this condition should extend for about a thirty-day period.

JJ/jl

Jim

C03609



CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

P.O. Box 681

East St. Louis, Illinois 62202

618/337-6000

March 31, 1981

Mr. Carl Marciante
Sauget Waste Treatment Plant
2897 Monsanto Avenue
Sauget, Illinois 62206

Dear Mr. Marciante:

The sampling system as outlined on the Consoer, Townsend and Associates drawing Project No. 78223, no date, has been installed with minor modifications on the Cerro East Lift Station.

In the past, your representative has collected two samples from the old catch bottle, retaining one for your analysis and dropping off one at our laboratory. After collecting samples, he has emptied the collection bottle and replaced for the next day's collection.

We ask that he continue this procedure, except collect his samples from the sample station drum (freeze protected), distribute one to you and one to our lab, the only difference being that he should open the cock valve drain on the 55-gallon drum each day, thereby draining the previous day's collection. Then reclose for the accumulation of the new sample. Costs for this installation have been incurred by Cerro.

Should you have any questions, please advise.

Yours very truly,

CERRO COPPER PRODUCTS CO.
A Member of The Marmon Group

James C. Johnson

James C. Johnson
Manager of Engineering

JCJ/jpl

cc: J. Dalton (S.W.T.P.)

✓ P. Tandler
R. Brown

C03610

A.2
3/31/81
1104
and Sampling / m.
File

2/16/81

1104

cc: P. Tandler
R. Baum
T. Cornwell
W. Lybarger
R. Groves
L. Fraw
J. Fawell
W. Novack
FILE-REC

TO: J. Johnson
From: R. P. Conners
Subject: Emergency Plan - Waste Water Treatment

In case of emergency, first call me and I will notify the appropriate production supervision. If I am not available, call the four General Foremen from my Department.

Please change the curtailment plan for Building 19 as marked so that Maint cuts off the water to the A.P. settling Tank (not the make up as indicated) and monitors the 3 cooling towers. The Maint Dept normally does all the adjusting & knows which valves are which, etc. The "casting pit water" in Bldg 19 is what? I can only think of the sump in the pit. Surely you don't mean the cooling water for the molds.

I am sending copies to all General Foremen

Re

4/16/79

0 - Revisions

WASTE EFFLUENT CURTAILMENT PLAN

It is expected these lists will be reviewed by the department heads and assigned to specific individuals in their departments for action and accountability in the event of a request of shutdown of our effluent.

Production departments are requested to designate singular contacts in each area for communication purposes and follow up of our effectiveness.

LOCATION

<u>Source</u>	<u>Item</u>	<u>Action</u>	<u>Responsibility</u>
<u>METAL RECEIVING</u>			
Sample Room		Shut Off	Maintenance
Hoses		Cut Off	Production

BUILDING 19

A. P. System

Valve - Make up

Monitor

Production

Three Cooling Towers

Cut Off Continuous Overflow

Monitor

Production

Casting Pit Water

Pump

Shut Down

Maintenance

Compressor Cooling Tower

Check for Overflow

Maintenance

Locker Room

Showers, Drinking Fountain, Urinals

Cut Off All Running Water

Area Production Supervisor

Hoses

Shut Off

Production

ANODE OPERATION

Casting

Wheel & Bosh Tank

Stop Casting and Cut Off Water

Production

#6 Deep Well

Shut Down After Wheel is Empty

Maintenance

Hydraulic Oil Coolers

Shut Down

Maintenance

#3 A. P. System

Recycle & Quench Tank

Stop All Overflow

Maintenance

A. P. Fan Oil Coolers

Shut Down

Maintenance

A. P. Fan Blades

Shut Down

Maintenance

C03612